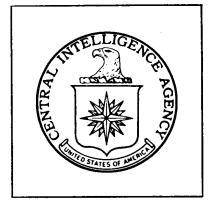
### **Top Secret**



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

## Basic Imagery Interpretation Report

Major Chemical Fertilizer Plants China

# **Top Secret**

13/0048/70 **RCS** 25X1 DATE

25X1

Approved For Release 2008/05/29: CIA-RDP79T009



Appro	ved For Release 2008/05/29 : CIA-RDP79T00909A00	1000010013-1	
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	CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence		

#### **ABSTRACT**

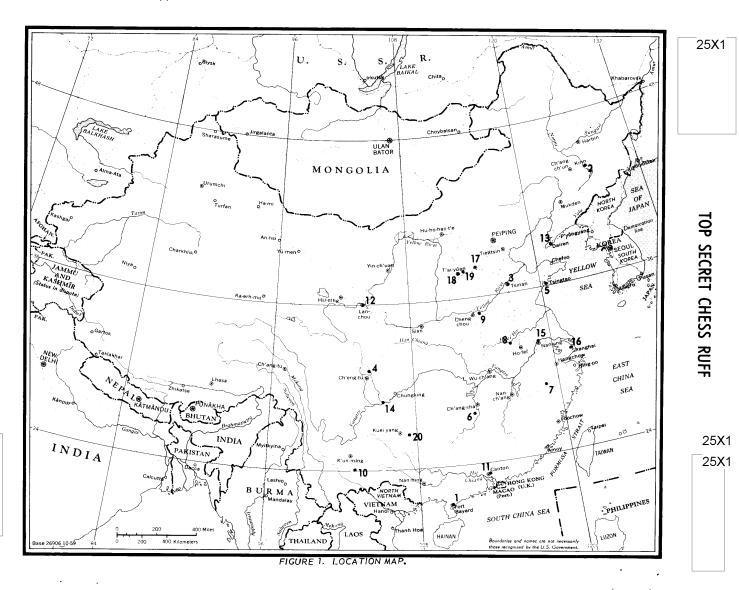
Imagery Analysis Service

This report updates the previous basic reports on 20 major chemical fertilizer plants in China.

Significant changes have been observed at four of the plants since the previous reports. At the Chu-chou plant, the fertilizer production facilities were completed between April 1968 and October 1969; the plant was first seen in operation in February 1969. At the Kai-feng plant, new fertilizer production and handling facilities were nearing completion in November 1969. At the Tai-yuan Chemical Fertilizer Plant, new production facilities had reached the mid-stage of construction in January 1970. At the Tai-yuan Phosphate Fertilizer Plant, footings for a new building and bases for four storage tanks were first seen in January 1970 and construction was continuing in the unidentified processing area.

On the latest coverage, eight of the plants were operating and there was evidence that seven more may have been operating. The small scale and poor quality of the photography available precluded determining whether the remaining five plants were operating.

The cutoff date for information in this report is January 1970.



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#### INTRODUCTION

This report presents information on the current status of 20 fertilizer plants in China and discusses changes since the previous report.

The following list of the plants studied is keyed to Figure 1.

- 1. Chan-chiang (Fort Bayard) Chemical Fertilizer Plant
- 2. Chi-lin (Kirin) Chemical Fertilizer Plant
- 3. Chi-nan (Tsinan) Chemical Fertilizer Plant
- 4. Chin-tang Fertilizer Plant
- 5. Ching-tao (Tsingtao) Chemical Fertilizer Plant
- 6. Chu-chou Nitrogen Fertilizer Plant
- 7. Chu-hsien Chemical Plant
- 8. Huai-nan Chemical Fertilizer Plant
- 9. Kai-feng Chemical Fertilizer Plant
- 10. Kai-yuan Chemical Plant
- II. Kuang-chou (Canton) Chemical Fertilizer Plant
- 12. Lan-chou Chemical Fertilizer Plant
- 13. Lu-ta (Dairen) Chemical Combine Kan-ching-tzu
- 14. Na-chi Chemical Fertilizer Plant Lu-chou
- 15. Nan-ching (Nanking) Chemical Plant Yung-li Chemical Industries
- 16. Shang-hai Chemical Plant Wu-ching
- 17. Shih-chia-chuang Nitrogen Fertilizer Plant
- 18. Tai-yuan Chemical Fertilizer Plant
- 19. Tai-yuan Phosphate Fertilizer Plant Shansi
- 20. Tu-yun Nitrogen Fertilizer Plant

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Chu-chou Nitro	gen Fertilize	er Plant			СН	
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nd RIS. USAT (SEC		et MO386–21HL, 3rd ed, M	May 68, Scale 1:200,000
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	was possibly in o al in the gas prod	peration in November 196 Juction area. REFERENCES	58 as indicated by the
ocument			
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Kai-yuan Chemical Plant*  ITM COORDINATES GEOGRAPHIC COORDINATES  18QUM218260 23-44-05N 103-14-41E	CH
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No changes have been observed in the production facilithemical Plant since November 1968, the date of the latest	
in the previous report.  The poor quality and small scale of the February 1969 determining whether the plant was operating.	photography precludes
REFERENCES	
Document	



ASSUQ740980 36-07-19N 103-35-52E  ACIC. USATC, Series 200, Sheet M0383-22HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET/  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed in the production facilities at Lan-chou chemical Fertilizer Plant since  The date of the latest photography 2 seed in the previous report.  Further analysis indicates that the plant does not have a possible nitrophosphate production area as previously reported. This area appears to be a plant support area. The previously identified methanol production facility now appears to be a possible coal tar recovery and storage facility.  The plant was in operation in December 1969 as evidenced by vapor emanating from the ammonium nitrate reactor building and from several plant cooling towers.  REFERENCES  Document  CIA. RCS 15/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968,  (TOP SECRET CHESS RUFF)	App			et CHESS RUFF	9A001000010	013-1	25
An-chou Chemical Fertilizer Plant  TOM COORDINATES  ASSUD740980  36-07-19N 103-35-52E  ACIC. USATC, Series 200, Sheet M0383-22HL, 3rd ed, Dec 68, Scale 1:200,000  (SECRET)  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed in the production facilities at Lan-chou Chemical Fertilizer Plant since  the date of the latest photography 2 used in the previous report.  Further analysis indicates that the plant does not have a possible nitrophosphate production area as previously reported. This area appears to be a plant support area. The previously identified methanol production facility now appears to be a possible coal far recovery and storage facility.  The plant was in operation in December 1969 as evidenced by vapor emanating from the ammonium nitrate reactor building and from several plant cooling towers.  REFERENCES  Document  CIA. RCS 13/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968,  (TOP SECRET CHESS RUFF)							
TITUM COORDINATES   GEOGRAPHIC COORDINATES   48SUQ740980   36-07-19N 103-35-52E    MACIC. USATC, Series 200, Sheet M0383-22HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)  ATEST IMAGERY USED   NEGATION DATE (If required)    NA    BASIC DESCRIPTION    No changes have been observed in the production facilities at Lan-chou chemical Fertilizer Plant since   the date of the latest photography 2 used in the previous report.  Further analysis indicates that the plant does not have a possible nitrophosphate production area as previously reported. This area appears to be a plant support area. The previously identified methanol production facility now appears to be a possible coal tar recovery and storage facility.  The plant was in operation in December 1969 as evidenced by vapor emanating from the ammonium nitrate reactor building and from several plant cooling towers.  REFERENCES  Document  CIA. RCS 13/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968, (TOP SECRET CHESS RUFF)	INSTALLATION OR AC	TIVITY NAME		<u>, , , , , , , , , , , , , , , , , , , </u>		COUNTRY	_
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APREFERENCE  ACIC. USATC, Series 200, Sheet M0383-22HL, 3rd ed, Dec 68, Scale 1:200,000  (SECRET)  ATESTIMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed in the production facilities at Lan-chou chemical Fertilizer Plant since the date of the latest photography used in the previous report.  Further analysis indicates that the plant does not have a possible nitrophosphate production area as previously reported. This area appears to be a plant support area. The previously identified methanol production facility now appears to be a possible coal tar recovery and storage facility.  The plant was in operation in December 1969 as evidenced by vapor emanating from the ammonium nitrate reactor building and from several plant cooling towers.  REFERENCES  Document  CIA. RCS 13/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968,  (TOP SECRET CHESS RUFF)						_ I ·	25
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Occument  CIA. RCS 13/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968,  (TOP SECRET CHESS RUFF)	from the ammon	ium nitrate reac		· ·	eral plant c	cooling fowers.	
Document  CIA. RCS 13/0059/69, Lan-chou Chemical Fertilizer Plant, November 1968,  (TOP SECRET CHESS RUFF)			REFE	RENCES			
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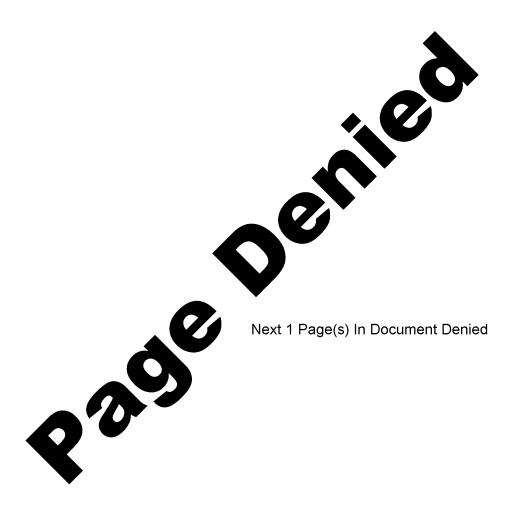


App	proved For Release 2008/	/05/29 : CIA-RDP79T009( ECRET CHESS RUFF	09A001000010013-1
NSTALLATION OR AC	TIVITY NAME		COUNTRY
Na-chi Chemica	l Fertilizer Plant Lu	ı-chou	. CH
TM COORDINATES	GEOGRAPHIC COORDINATES		
18RWG368833	28-46-35N 105-22-35	E	
	TC, Series 200, Sheet CRET	MO495-23HI, 3rd ed,	Jul 69, Scale 1:200,000
ATEST IMAGERY USE	D	NEGATION DATE (If re	equired)
			NA
	DACI	C DESCRIPTION	
No chango			cilities at the Na chi
	lizer Plant since May		cilities at the Na-chi he latest imagery used
	scale and poor quali ether the plant was o		969 photography preclude
		REFERENCES	
Document			
CIA. BCS I	3/0073/69, Na-chi Che (TOP SECRET R	emical Fertilizer Plan RUFF)	nt, January 1969,
			1066
	5136, Lu-chou Nitroge SECRET RUFF)	n rertilizer Plant, N	May 1966,
	·		

• •	/05/29 : CIA-RDP79T00909A001 ECRET CHESS RUFF	000010013-1
INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Chemical Plant Yung-li Ch  UTM COORDINATES GEOGRAPHIC COORDINATES  50SPL665658 32-12-58N 118-45-4  MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet (SECRET)	3E	CH, Scale 1:200,000
LATEST IMAGERY USED	NEGATION DATE (If required)  NA	
No changes have been observed Chemical Plant since November 1967, previous report.  The plant was probably in oper	the date of the latest imates. Tation in February 1969 as e	agery used in the
or vapor emanating from the area of	the sulfuric acid plant.	
Document		
	Chemical Plant Yung-li	mical Industries,
TOP S	-18- SECRET CHESS RUFF	2

		TOP SECRET	CHESS RUFF		۷.
ISTALLATION OR	ACTIVITY NAME			COUN	TRY
1017122711011 011					
hang-hai Ch	emical Plant Wu-	ching		c	CH
TM COORDINATES					25
IRUE532399	31-04-30N 12	I-27-50E			
AP REFERENCE	ATO C: 200	Chast MO402	7111 3nd od Mov 6	50 50010 1.200	2 000
	AIC, Series ZUUL ECRET,	Sheel MU492	-7HL. 3rd ed. Mav 6	oo. Scale 1:200	25
ATEST IMAGERY			NEGATION DATE (If require	d)	
				NA	25
		1			
		BASIC DESC	CRIPTION		
small gash reatment ta hemical Pla Althoug mall-scale	older has been b nks are under co nt. h no positive in photography of D	uilt in the construction in dicators of December 1969	e latest photograph gas production area n the water treatme production activity , the plant was producted the general appear	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	uilt in the construction in dicators of December 1969	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Althoug small-scale	older has been b nks are under co nt. h no positive in photography of D	nuilt in the onstruction in dicators of December 1969 activity an	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba ent area at Sha y are seen on a obably in opera	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Although and I-scale as indicated	older has been binks are under cont.  h no positive in photography of Diby construction  1 by construction	nuilt in the sonstruction in dicators of December 1969 and activity an REFER	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba	able water ang-hai the ation plant.
a small gash reatment ta Chemical Pla Although small-scale as indicated Document CIA. BCS	older has been benks are under cont.  h no positive in photography of December 1 by construction by construction (TOP S	dicators of december 1969 activity an REFER	gas production area in the water treatment of the water treatment of the plant was production activity of the plant was producted the general appearance.  ENCES	a and two proba	able water ang-hai the ation plant.
n small gash reatment ta Chemical Pla Although small-scale as indicated COCUMENT CIA. BCS	older has been benks are under cont.  h no positive in photography of December 1 by construction by construction (TOP S	dicators of december 1969 activity an REFER	gas production area n the water treatme production activity , the plant was pro d the general appea	a and two proba	able water ang-hai the ation plant.
n small gash reatment ta Chemical Pla Although small-scale as indicated COCUMENT CIA. BCS	older has been books are under cont.  h no positive in photography of Double by construction  13/0096/69, Share (TOP States)	dicators of december 1969 activity an REFER	gas production area in the water treatment of the water treatment of the plant was production activity of the plant was producted the general appearance.  ENCES	a and two proba	able water ang-hai the ation plant.
n small gash reatment ta Chemical Pla Although small-scale as indicated COCUMENT CIA. BCS	older has been books are under cont.  h no positive in photography of Double by construction  13/0096/69, Share (TOP States)	dicators of december 1969 activity an REFER	gas production area in the water treatment of the water treatment of the plant was production activity of the plant was producted the general appearance.  ENCES	a and two proba	able water ang-hai the ation plant.
n small gash reatment ta Chemical Pla Although small-scale as indicated COCUMENT CIA. BCS	older has been books are under cont.  h no positive in photography of Double by construction  13/0096/69, Share (TOP States)	dicators of december 1969 activity an REFER	gas production area in the water treatment of the water treatment of the plant was production activity of the plant was producted the general appearance.  ENCES	a and two proba	able water ang-hai the ation plant.
n small gash reatment ta Chemical Pla Although small-scale as indicated COCUMENT CIA. BCS	older has been books are under cont.  h no positive in photography of Double by construction  13/0096/69, Share (TOP States)	dicators of december 1969 activity an REFER	gas production area in the water treatment of the water treatment of the plant was production activity of the plant was producted the general appearance.  ENCES	a and two proba	able water ang-hai the ation plant.

Ap <sub>l</sub>		CIA-RDP79T00909A001000010	25X 25X	
INSTALLATION OR AC	TIVITY NAME		COUNTRY	
Shih-chia-chua	ng Nitrogen Fertiliz <b>e</b> r Plar	nt	CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X	1
50SKT844163	38-04-20N		23%	. 1
MAP REFERENCE				
ACIC. USATC, S	Series 200, Sheet M0382-14F	HL, 3rd ed, May 67, Scale I:		
(SECRET,		NEGATION DATE (If required)	25X	.1
		NA	25X	<b>`1</b>
	BASIC DESC	CRIPTION		
No changes Nitrogen Ferti used in the pre	izer Plant since September	e production facilities at S 1968, the date of the late	hih-chia-chuang st photography	
The small the plant was c	scale of the May 1968 photoperating.	ography precludes determini	ng whether	
	REFERE	INCES		
			25X	(1
		<u>5,</u>		
Document				
CIA. RCS 13	70115/69, Shih-chia-chuang (TOP SECRET RUFF)	Nitrogen Fertilizer Plant,	April 1969, 25X	1
	CIUP SEUREI RUFF)		25%	. 1



Арр	roved For Release 200	08/05/29 : CIA-RDP79T0	00909A0010000100	)13-1
	TOP	SECRET CHESS RU	FF	
				COUNTRY
STALLATION OR AC	TIVITY NAME			COUNTRY
u-yun Nitroge	n Fertilizer Plant			СН
TM COORDINATES	GEOGRAPHIC COORDINAT	ES		
8RYE510020	26-13-10N 107-30	7-50E	······································	·
AP REFERENCE				
	ATC, <u>Series 200. Sh</u> ECRE	eet MO497-IIHL, 2nd	ed, Sep 65, Sca	le 1:200,000
TEST IMAGERY US		NEGATION DATE	E (Tr requirea)	
			NA	
the previous nate of the small the plant was	scale of the Dece	ember 1969 coverage (	precludes determ	ining whether
		RE FE RENCES		
Document				
CIA. RCS		Nitrogen Fertilizer	Plant, April 19	69,
CIA. RCS	13/0095/69, Tu-yun (TOP SECF		Plant, April 19	69,
CIA. RCS			Plant, April 19	69,
CIA. RCS			Plant, April 19	69,

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